

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: February 16, 2006

Inspector: Diana Walden

Location: 345kV Underground Route

Storm/

Rain Event: Approximately 0.13" of precipitation fell, mostly in the form of snow between 2/11-2/12 as reported by NOAA. Totals may actually be higher than reported.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<ul style="list-style-type: none"> - Trenching and pipe installation, continue in several locations off Rt. 7.1/4-2/16/06 Active trenching had been noted near Orems Lane and the Lady Fatima church. A vault was also being installed in this vicinity. 2/16/06 - Several areas of bare soil were present along Rt. 7 but other construction projects are also ongoing. 2/2-2/16/06 - The Horizontal Direction Drill at School Rd. had some returning issues this week. The breakout that occurred last week in the bore hole within the wetland resulted in some disturbance as well. 2/16/06 - The bore exit point was set up for installing the utilities in the bore trench. The area was well contained at the time and pipes and cables were in place. 2/16/06 - The Georgetown Deli 	<ul style="list-style-type: none"> -Continue providing good "house- keeping" along the roadways. See additional sections for more information. 12/1-2/16/06 -See erosion control section for recommendations. 2/16/06 -In general, stockpiles should be backfilled each night. And restoration will be required when work is completed. 2/2-2/16/06 - Continue to monitor the turbid water as a result of the drilling. There is a large amount of exposed surfaces which makes control difficult. See additional sections for more details.12/8-2/16/06 -Some wetland restoration will be necessary. 2/16/06 - See other sections for more details. 2/16/06 - We are uncertain whether

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	<p>parking lot was paved at this time. 2/16/06</p> <ul style="list-style-type: none"> - Crews were working at Archers Lane transition station, installing a vault in the station pad. The access drive is staked out for trenching. 2/16/06 	<p>this is the final pavement grade. 2/16/06</p> <ul style="list-style-type: none"> - None at this time, stockpiles are present but remain contained to the pad. 2/16/06
<p>Erosion and Sediment (E&S) Controls</p> <p>continued</p> <p>Route 7</p>	<ul style="list-style-type: none"> - The silt fence at the old high school J&B site was repaired as recommended and remains good shape. 1/19-2/16/06 - In the future, any observable sedimentation in resource areas should be removed immediately. 1/19-2/16/06 - At the HDD, work continues. The breakout and associated repairs last week resulted in some wetland impacts. Vegetation was affected and soil within the wetland was disturbed. 2/9-2/16/06 - The use of the basin for pumping drill muds is still something of a concern in the instance there is significant rainfall. 1/4-2/9/06 - This week also showed less efficient containment of the muds than had been noted. Some of the mud was again reaching the eastern side of the basin. 2/16/06 - Silt fence had been restored below the baker tank but was partially down again. Water flows from here and no longer completely re-enters the basin. 2/16/06 - Dewatering from non-project related work again flowed through the site. The combination of this and the less effective containment of 	<ul style="list-style-type: none"> - Stone and haybales remaining on the outlet slope will still need to be removed for final stabilization. 1/19-2/16/06 - The remaining instream controls will need to be removed once the slope has been restored. 1/26-2/16/06 - A restoration plan should be proposed and implemented and may include some plantings. In the meantime, disturbed soil needs to be controlled or temporarily stabilized. 2/9-2/16/06. - Have a back up plan for water and sediment containment in the instance a highly significant storm is predicted. 1/4-2/16/06 - Muds were flowing from the baker tank and were no longer as well contained by the silt fence. Changes to flow patterns also let mud breakout towards the eastern wetland area. Berms should be reshaped and controls used effectively to keep the mud in the basin. 2/16/06 - When conditions are stable enough, sediment will need to be removed carefully by hand from the wetland. The off-site dewatering cannot be

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<p>Erosion and Sediment (E&S) Controls</p> <p>continued</p> <p>Route 7 continued</p>	<p>muds led to sediment accumulation in the wetland beyond the check dams. 2/16/06</p> <p>-A large amount of disturbed soil remains on site. While external controls are good, more stabilization here will lead to less issues with run-off. 1/19-2/16/06</p> <p>- The exit point of the bore remains set up with erosion controls along the perimeter of the area and mud was returning to the trench while utilities were being installed. 2/16/06</p> <p>- While the area is well controlled now, an earlier breakout resulted in sedimentation to an area of ponded water down gradient of the return site near the railroad tracks. 1/26-2/16/06</p>	<p>regulated but reducing mud issues will help improve the situation. 2/16/06</p> <p>- Consider stabilization measures for equipment and regrade/mulch areas whenever feasible. Reduce overall disturbed surfaces that contribute to the turbidity. 1/19-2/16/06</p> <p>- Continue to monitor erosion controls and handling of the mud. 2/16/06</p> <p>- Contractors are waiting until the water recedes in order to go in and remove the sediment. 2/16/06</p>
	<p>- The storage area near #848 (Rt.7) is still highly utilized and conditions were muddy. 1/4-2/16/06 Stone stockpiles were noted closer to the swale. 2/2-2/16/06</p> <p>- Trenching was ongoing along Rt. 7. Soil was stockpiled along the edge but is typically backfilled by the end of the day. 1/19-2/16/06</p> <p>-A catch basin was noted near the bore exit point which required some maintenance and controls. 2/16/06</p> <p>-Protection measures should be installed at the storm inlet in Racquet club since work is in proximity. 2/2-2/16/06</p> <p>- Ruts from equipment access were noted in the island at the</p>	<p>- Continue to monitor activity in here. Watch placement of project materials in the vicinity of this roadside swale. 12/8-2/16/06</p> <p>-None at this time. Control stockpiles if they will remain more than a day 1/19-2/16/06</p> <p>- The mud was cleared away and controls installed during the inspection. 2/6/06</p> <p>- Water from the street seems to be more of an issues than water from the site but controls would still be appropriate. 2/16/06</p> <p>- Snow cover prevented further observation but protect</p>

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<p>Rt. 107 Daywork</p> <p>Umpawaug Rd.</p>	<p>Rt. 107 & 7 intersection leading to sedimentation near an inlet. 2/2-2/16/06</p> <p>- At the Georgetown Deli, all slopes and controls remain in good shape. 2/2-2/16/06</p> <p>- There is disturbed soil at the base of the slope just north of the completed Norwalk River work from equipment access. 2/2-2/16/06</p> <p>-Active trenching is not occurring at this time. A stockpile and small storage yard remain in place.2/2-2/16/06</p> <p>- A gully continues to form down the recently constructed slope near #79 and deposits sediment in the stream . 2/2-2/16/06</p>	<p>catch basins here and restore the island if not already done so. 2/2-2/16/06</p> <p>-None at this time. 2/2-2/16/06</p> <p>-Continue to monitor controls. The area below the slope could use some additional restoration where equipment had been moving. 2/2-2/16/06</p> <p>- Remember to restore this area when feasible 2/2-2/16/06</p> <p>- Run-off is from the roadway but the sediment is from the un-stabilized slope. Place stone here to help the situation. 2/2-2/16/06</p>
<p>Adjacent Wetlands and Waterways</p>	<p>-At the jack and bore near Allens Meadow Park, the outlet slope will need final restoration. 1/19-2/16/06</p> <p>-The breakout described at the HDD resulted in direct access and impact to the wetland beyond the basin in order to contain the muds. This also resulted in disturbed soil in the wetlands. 2/9-2/16/06</p> <p>- Wetlands directly to the east of the basin will have to be evaluated after the work is complete. 1/19-2/16/06</p> <p>-Combination of non-project related offsite dewatering and issues with controlling the muds has led to sedimentation to the wetlands past the controls and check dams</p>	<p>-It is probably best to leave the sediment in the stream alone at this point. Plan to remove stone and haybales and instream controls for final restoration. 1/19-2/16/06</p> <p>- A restoration plan should be implemented for the wetlands potentially including plantings in the spring. In the meantime, the soil surface needs stabilization or controls. 2/16/06</p> <p>-Reducing sources of turbidity on site will likely help with this issue. Restoration may also be necessary here.1/19-2/16/06</p> <p>- When conditions are stable, sediment will need to be carefully removed by hand. 2/16/06</p>

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	again. 2/16/06 - Some sediment has deposited in a stream off Umpawuag Rd. as a result of road run-off down the constructed slope. 2/2-2/16/06	- Stabilize the slope or minimize the erosive velocity of the run-off. 2/2-2/16/06
Staging, Storage, and Parking Areas	- The equipment storage yard on the property south of the Rt. 7 & 107 intersection was muddy but vehicles were contained. 1/26-2/16/06 - Stone piles and materials are being placed increasingly closer to the swale by Rt. 7. 1/26-2/16/06 - The racquet club storage yard has piles of stone and soil. It is even more important to place protective measures in the inlet/swale here. 2/2-2/16/06	- In general, materials should be placed appropriately in storage areas or immediately adjacent to work each night. No potentially spillable materials should be left behind or out overnight. 2/16/06 -Practice good housekeeping, including personal litter. 1/12-2/16/06 - Keep within the limits of the yard and don't encroach into the brush. 10/27-2/16/06 Install haybales at the culvert within the swale. 2/2-2/16/06
Soils	- Most soils on roadways on the project route are being trucked to a waste facility in Danbury for storage and eventual disposal. Soils off roadway can be returned to the trench. - Several areas of disturbed soil were noted as a result of trenching and vault installation. 2/2-2/16/06 - Mud is being excavated from the HDD basin and transported to Danbury as a partial solution to the turbidity issues here. 12/14-2/16/06	- Soils appear to be handled appropriately. 2/16/06 - Continue to make sure stockpiles are backfilled to the trench by the end of each day. 2/2-2/16/06 - Some excavation has been performed but it will need to continue. 12/14-2/16/06
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A

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Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Snow cover/frozen ground is now a factor in restoration/stabilization attempts, but a number of bare roadside areas still remain. 12/8-2/16/06</p> <p>- Some erosion was noted in previously restored areas such as near Scribner Hill Rd. 1/4-2/16/06</p>	<p>- Attend to disturbed areas as feasible in the appropriate time frames. 11/10-2/16/06</p> <p>-Other utility projects are ongoing as well which often undoes some of the efforts. 2/16/06</p> <p>-Repair erosion in these areas in the spring when the area can stabilize. 1/4-2/16/06</p>
Dewatering	<p>- No major dewatering efforts were noted with the exception of the mud return operation at the HDD site. 2/16/06</p> <p>- The non-project related dewatering was also affecting the HDD site. 2/16/06</p>	<p>- On-site controls had been containing the muds and water fairly well but this week brought some containment issues. See other sections for details. 2/16/06</p>
Blasting	<p>- No blasting is occurring on site at this time.</p>	<p>- None at this time.</p>
Spills and Material Storage	<p>- The turbid washwater and sediment containment issues at the HDD are returning to some degree. Some berms or repair of controls may help this situation again. 2/16/06</p> <p>A contingency plan should also be considered if a significant storm is predicted. 1/19-2/16/06</p> <p>- A tarp remains under a leaking piece of equipment and the refueling tank but additional leaks were noted beyond the tarp where the stone was affected. Absorbent pads here were also becoming saturated. 2/16/06</p>	<p>- The basin is being excavated of mud but larger stabilization/source control measures should be examined. 1/19-2/16/06</p> <p>- Frac tanks will be brought in if necessary. 2/16/06</p> <p>-Another tarp is needed to extend the containment and pads were going to be replaced. Affected stone should be removed. 2/16/06</p> <p>Continue to monitor and maintain plastic as needed. Dispose of properly at completion. 1/19-2/16/06</p>

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	<ul style="list-style-type: none"> - In general, make sure that glues, asphalt components and other materials are stored well overnight and not left out along the roadway. 2/16/06 	<ul style="list-style-type: none"> - The contractors should remain vigilant about securing and handling fuel containers. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. - Check equipment status on a regular basis and keep spill kits on hand. - Report spills immediately, even if they are being controlled.
Additional Observations	<ul style="list-style-type: none"> - Address landowner concerns regarding picking up litter at the storage yard near the Rts. 7/107 intersection. 	

Next likely scheduled inspection:

Wednesday, February 22, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature:

Diana Walden



345kV (Archers Lane): Both photos show the vault operation in the Archers Lane station yard. Soil is stockpiled but remains within the pad and dewatering has not been necessary for the work. 2/16/06



(Georgetown Deli and Rt. 7): Photo on the left shows the parking lot at the Georgetown Deli. Work internal to the vault was not noted and the parking lot had been paved. Photo on the right shows the Racquet Club storage. Haybales should be installed in a swale here. 2/16/06



345kV (HDD) Photo shows the wetlands beyond the basin where the excavator recently accessed to repair a breakout in the bore hole. As a result several trees were knocked down or broken and an area was disturbed in order to contain the muds. 2/16/06



Photo on the left shows one of the trees that was either blown down or knocked over by equipment movement. A restoration plan should be considered. Photo on the right shows the wetlands beyond the basin where sediment accumulation has occurred beyond the haybales. 2/16/06



Photo on the left is a view of the eastern side of the basin. Some of the muds from the site are migrating to this area. Photo on the right shows where turbid water is pooling up and getting through the controls, causing the sediment accumulation in the wetlands. This is from a combination of off-site non project related dewatering as well as the on-site muds. 2/16/06



Photo on the left shows where muds are again escaping the area below the baker tank. Some of the flow returns to the basin but the remainder is ending up at the eastern side of the basin and creating turbidity issues. Photo on the right shows additional leaks under equipment. 2/16/06



345kV (HDD exit): Photo on the left shows the pipe set up and ready to be pulled into the bore hole. Photo on the right is a view of the bore exit point where the operation to install the utilities in the bore is ongoing. 2/16/06



345kV (Rt. 7): Photo on the left is a view of a catch basin that was protected immediately after it was noted without controls. Photo on the right is an overview of the trenching along Rt. 7 in the vicinity of Orem's Lane. 2/16/06